

ABSTRACT OF THE INVENTION

A 3-D imaging system for recognition and interpretation of gestures to control a computer. The system includes a 3-D imaging system that performs gesture recognition and interpretation based on a previous mapping of a plurality of hand poses and orientations to user commands for a given user. When the user is identified to the system, the imaging system images gestures presented by the user, performs a lookup for the user command associated with the captured image(s), and executes the user command(s) to effect control of the computer, programs, and connected devices.